

CLAIMS

I Claim:

1. An automatic portable lowering system consisting of, but limited to, a integrated casing, retractable coil spring, ball bearings, hydraulic seals, cable spool, lowering cable, shafts, planetary gear system, flywheel gear, unidirectional clutch, translucent clutch, tie down hook or arrangement, cable guide roller, compression spring, fabricated and integrated in a manner to make a solid portable automatic descending system for lowering of weights or human from high-rise buildings in a safe manner along with speed retraction of cable at the release of cable for next use.
2. The integrated hydraulic or mechanical clutch, as per claim # 1, which consists of, but not limited to, fixed vanes or friction plates, expandable vanes or mechanical governors, hydraulic fluid, seals, bearings, planetary gear system and shaft, fabricated, integrated and assembled in a manner to form a translucent clutch capable of providing increased friction on continuous basis to the cable spool shaft in a manner to oppose the load on the cable to a desired level, thereby help lower the load without a serious impact on the ground.

3. The integrated cable and spool system, as per claim # 1, which consists of , but not limited to, delivery cable, guide roller, bearings, floating shaft, spring, cable spool, retracting coil spring, fabricated and assembled in a manner to form an integrated cable delivery and fast cable retracting mechanism completely coupled with hydraulic clutch via a unidirectional clutch or ratchet mechanism.
4. The planetary gear mechanism, as per claim # 1, consisting of but not limited to, flywheel gear, planetary gears, pinion gear, floating shaft, bearings, seals, unidirectional clutch mechanism, clutch coupling, springs fabricated and assembled in a manner to form an integrated high revolution system to provide high spin to the integrated clutch assembly for the purpose of increased drag in order to offset the load on the cable or cable spool.
5. The integrated hook or tie down arrangement, as per claim # 1, comprises of but not limited to, reinforced hook or eye extension, belt or strap arrangement integrated and fabricated in a manner to provide a strong and secure method of tie down of the automatic descending system for the purpose of lowering of personnel or load from the high elevation.